

adsorbing a biological material to a solid carrier, wherein the biological material comprises proteins; and

incubating ~~said~~ the biological material in the presence of an alkyl phosphate-free detergent solution, wherein ~~said~~ the detergent solution contains at least one eluotropic salt in a total concentration of at least 200 mM, wherein during incubating ~~said~~ the proteins are desorbed into the detergent solution to yield a suspension and ~~said~~ the microorganisms and pyrogens are inactivated.

44. (Amended) The method according to claim 43, wherein ~~said~~ the microorganisms are viruses.

45. (Amended) The method according to claim 43, wherein ~~said~~ the eluotropic salt is an alkaline earth salt.

46. (Amended) The method according to claim 43, wherein ~~said~~ the eluotropic salt is sodium chloride.

47. (Amended) The method according to claim 43, wherein ~~said~~ the detergent is in an amount of at least 1%.

48. (Amended) The method according to claim 43, wherein ~~said~~ the detergent is an amount of more than 5%.

49. (Amended) The method according to claim 43, wherein ~~said~~ the detergent is an amount of more than 10%.

50. (Canceled).

51. (Amended) The method according to claim 43 wherein ~~said~~ the detergent is selected from the group consisting of polysorbates and polyoxyethylene

ethers.

52. (Amended) The method according to claim 51 wherein ~~said~~ the polyoxyethylene ether detergent is non-ionic.

53. (Amended) The method according to claim 43 wherein ~~said~~ the eluotropic salt is a chaotropic agent.

54. (Amended) The method according to claim 53 wherein ~~said~~ the chaotropic agent is selected from the group consisting of urea, rhodanides, and guanidinium.

55. (Amended) The method according to claim 43, wherein ~~said~~ the incubating is performed for a period ranging from 10 minutes to 10 hours.

56. (Amended) The method according to claim 43, wherein ~~said~~ the incubating is performed for a period ranging from 1 hour to 5 hours.

57. (Amended) The method according to claim 43 wherein ~~said~~ the biological material is selected from the group consisting of plasma, a plasma fraction, a blood factor, a vitamin K-dependent protein, a prothrombin complex-containing fraction and a material from a cell culture.

58. (Amended) The method according to claim 43 wherein ~~said~~ the biological material is adsorbed onto a solid carrier and said incubation is effected after ~~said~~ the elution of ~~said~~ the biological material from said solid carrier.

59. (Amended) The method according to claim 58 wherein ~~said~~ the solid carrier is a chromatographic material.

60. (Amended) The method according to claim 59 wherein ~~said~~ the chromatographic material is used in ion exchange chromatography or affinity chromatography.

61. (Amended) The method according to claim 57 wherein ~~said~~ the blood factor is selected from the group consisting of factor VII, factor XII, factor XI and prekallikrein.

62. (Amended) A method of inactivating microorganisms and pyrogens present in biological materials to yield a biological preparation, wherein the method comprises:

adsorbing a biological material to a solid carrier, wherein the material comprises proteins;

incubating ~~said~~ the biological material in the presence of an alkyl phosphate-free detergent solution, wherein ~~said~~ the detergent solution contains at least one eluotropic salt in a total concentration of at least 200 mM, wherein during incubating ~~said~~ the proteins are desorbed into the detergent solution to yield a suspension and ~~said~~ the microorganisms and pyrogens are inactivated; and

purifying proteins from said suspension to yield a biological preparation.

63-72. (Canceled).

73. (Previously amended) A suspension prepared according to claim 43.

74. (Canceled).

75. (Previously amended) A preparation prepared according to claim 62.

76. (Amended) A biological preparation obtainable by a method of inactivating microorganisms and pyrogens in a biological material, wherein the method comprises:

adsorbing ~~said~~ the biological material to a solid carrier, wherein the biological material comprises proteins;

incubating ~~said~~ the biological material in the presence of an alkyl phosphate-free detergent solution, wherein ~~said~~ the detergent solution contains at least one eluotropic salt in a total concentration of at least 200 mM, wherein during incubating ~~said~~ the proteins are desorbed into the detergent solution to yield a suspension and ~~said~~ the microorganisms and pyrogens are inactivated; and

purifying said proteins from ~~said~~ the suspension to yield ~~said~~ the biological preparation.

77. (Previously presented) The biological preparation according to claim 76, wherein the preparation comprises at least one blood protein selected from the group consisting of factor II, factor V, factor VII, factor VIII, factor IX, factor X, factor XI, factor XII, von Willebrand factor, protein C, protein S, and protein Z.

78. (Amended) The method according to claim 43, wherein ~~said~~ the method yields a suspension that comprises at least one blood protein selected from the group consisting of factor II, factor V, factor VII, factor VIII, factor IX, factor X, factor XI, factor XII, von Willebrand factor, protein C, protein S, and protein Z.

79. (Amended) The method according to claim 62, wherein ~~said~~ the purifying yields a biological preparation that comprises at least one blood protein selected from the group consisting of factor II, factor V, factor VII, factor VIII, factor IX, factor X, factor XI, factor XII, von Willebrand factor, protein C, protein S, and protein Z.

80. (Amended) The method according to claim 62, wherein ~~said~~ the purifying is performed by diluting the suspension and contacting the diluted suspension with a solid carrier, whereby said proteins are readsorbed to ~~said~~ the carrier and ~~said~~ the inactivated microorganisms and pyrogens remain with ~~said~~ the detergent of ~~said~~ the suspension.

81. (Amended) The biological preparation according to claim 76, wherein ~~said~~ the purifying is performed by diluting the suspension and contacting the diluted suspension with a solid carrier, whereby ~~said~~ the proteins are readsorbed to ~~said~~ the carrier and ~~said~~ the inactivated microorganisms and pyrogens remain with ~~said~~ the detergent of ~~said~~ the suspension.

82. (New) A biological preparation containing at least one protein having an activity, wherein the preparation is obtained by a method comprising:

adsorbing a biological material to a solid carrier, wherein the biological material comprises at least one protein having an activity;

incubating said biological material in the presence of an alkyl phosphate-free detergent solution, wherein the detergent solution contains at least one eluotropic salt in a total concentration of at least 200 mM, wherein during incubating the protein is desorbed into the detergent solution to yield a suspension, and contaminating microorganisms and pyrogens are inactivated; and

purifying the protein from said suspension to yield said biological preparation, wherein the biological preparation contains at least 50% of the protein activity present in the biological material.

83. (New) The biological preparation according to claim 82, wherein the biological preparation contains at least 70% of the protein activity present in the biological material.

84. (New) The biological preparation according to claim 82, wherein the biological preparation contains at least 85% of the protein activity present in the biological material.

85. (New) The biological preparation according to claim 82, wherein the suspension from the incubating step is nanofiltrated prior to the purifying step.

86. (New) The biological preparation according to claim 82, wherein the suspension from the incubating step is lyophilized and then treated with heat prior to the purifying step.

87. (New) The biological preparation according to claim 82, wherein the elutropic salt is a chaotropic agent.

88. (New) The biological preparation according to claim 86, wherein the chaotropic agent is selected from the group consisting of urea, rhodanides, and guanidinium.

89. (New) The method according to claim 62, wherein the suspension from the incubating step is nanofiltrated prior to the purifying step.

90. (New) The method according to claim 62, wherein the suspension from the incubating step is lyophilized and then treated with heat prior to the purifying step.